

Standard Proximity Sensor

E2E

(DC 2/3-Wire)

Your Search for Proximity Sensors Starts with the World-leading Performance and Quality of the E2E

- Standard Sensors for detecting ferrous metals.
- Wide array of variations. Ideal for a variety of applications.
- Models with different frequencies are also available to prevent mutual interference.
- Superior environment resistance with standard cable made of oil-resistant PVC and sensing surface made of material that resists cutting oil.
- Useful to help prevent disconnection. Cable protector provided as a standard feature.



(Standards do not apply to all models.)



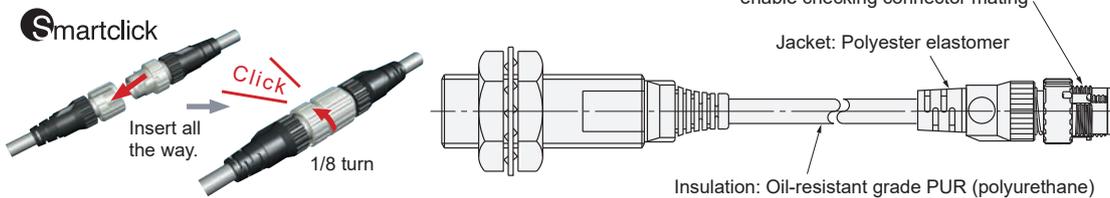
For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Be sure to read *Safety Precautions* on page 18.

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022.
DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Features

Lineup includes models with Smartclick pre-wired connectors for fast connection.



UL-recognized Models Available



E2E

E2E Model Number Legend

E2E- (1) (2) (3) (4) (5) (6) (7) - (8) (9) - (10) - (11) - (12) (13)

No.	Classification	Code	Meaning	Remarks
(1)	Appearance	X	Cylindrical (threaded)	
(2)	Sensing distance	Number	Sensing distance (Unit: mm)	Example: 1R5: 1.5 mm
		R	Indication of decimal point	
(3)	Shielding	Blank	Shielded Model	
		M	Unshielded Model	
(4)	Power supply and output specifications	B	DC 3-wire PNP open-collector output	Whether D models have polarity is defined by number 10.
		C	DC 3-wire NPN open-collector output	
		D	DC 2-wire polarity/no polarity	
		E	DC 3-wire NPN collector load built-in output	
		F	DC 3-wire PNP collector load built-in output	
		T	AC/DC 2-wire	
		Y	AC 2-wire	
(5)	Form of output switching element	1	Normally open (NO)	
		2	Normally closed (NC)	
(6)	Oscillation frequency type	Blank	Standard frequency	Used to prevent mutual interference.
		5	Different frequency	
(7)	Self-diagnosis	Blank	No	
		5	Yes	
(8)	Connection method	Blank	Pre-wired	
		M1	M12-size metal connector	
		M3	M8-size metal connector	
(9)	Connector specifications	Blank	Connector Model DC 3-wire and AC 2-wire, DC 2-wire with self-diagnosis output, DC 2-wire with old pin arrangement	
		G	Connector Model DC 2-wire with IEC pin arrangement	
		J	Pre-wired Connector Model DC 3-wire and AC 2-wire, DC 2-wire with old pin arrangement	
		GJ	Pre-wired Connector Model DC 2-wire with IEC pin arrangement	
		TJ	Pre-wired Smartclick Connector Model DC 2-wire	
		TGJ	Pre-wired Smartclick Connector Model DC 2-wire with IEC pin arrangement	
(10)	DC 2-wire polarity	Blank	Polarity	
		T	No polarity	
(11)	Cable specifications	Blank	Standard PVC cable (oil resistant)	
		R	Flexible PVC cable (oil resistant)	
		U	Polyurethane cable (oil resistant and reinforced)	
(12)	New model	N	New model (Applies only to DC 2-wire pre-wired and shielded models.)	This is blank if the cable specification in number 11 is R or U.
	Standard-certified model	US	UL-recognized model (Applies to DC 2-wire pre-wired models and pre-wired connector models.)	
(13)	Cable length	Letter M	Cable length (Unit: m) (Applicable to Pre-wired Models and Pre-wired Connector Models.)	Example: 2M 0.3M

Note: The purpose of this model number legend is to provide understanding of the meaning of specifications from the model number. Models are not available for all combinations of code numbers.

Ordering Information

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. Refer to the catalog (Cat. No. D120) for details.

2-Wire Models

Shielded DC 2-wire Models with No Self-diagnostic Output [Refer to Dimensions on page 20.]



Appearance	Sensing distance		Connection method	Cable specifications	Polarity	Operation mode	Pin arrangement	Applicable connector code *2	Model
M8	2 mm		M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X2D1-M1TGJ 0.3M
			Pre-wired Models (2 m)	PVC (oil-resistant)		NO	---	---	E2E-X2D1-N 2M
			M12 Connector Models	---		NC	---	---	E2E-X2D2-N 2M
			M8 Connector Models	---		NO	1: +V, 4: 0 V	A	E2E-X2D1-M1G
						NC	1: +V, 2: 0 V	D	E2E-X2D2-M1G
						NO	1: +V, 4: 0 V	F	E2E-X2D1-M3G
NC	1: +V, 2: 0 V	E2E-X2D2-M3G							
M12	3 mm		M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X3D1-M1TGJ 0.3M
			Pre-wired Models (2 m)	PVC (oil-resistant)		NO	---	---	E2E-X3D1-N 2M *1
			M12 Connector Models	---		NC	---	---	E2E-X3D2-N 2M
						NO	1: +V, 4: 0 V	A	E2E-X3D1-M1G *1
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NC	1: +V, 2: 0 V	D	E2E-X3D2-M1G
						NO	1: +V, 4: 0 V	A	E2E-X3D1-M1GJ 0.3M
					No *3	NC	1: +V, 2: 0 V	D	E2E-X3D2-M1GJ 0.3M
						NO	(3, 4): (+V, 0 V)	C	E2E-X3D1-M1J-T 0.3M
NC	(1, 2): (+V, 0 V)	D	---						
M18	7 mm		M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X7D1-M1TGJ 0.3M
			Pre-wired Models (2 m)	PVC (oil-resistant)		NO	---	---	E2E-X7D1-N 2M *1
			M12 Connector Models	---		NC	---	---	E2E-X7D2-N 2M
						NO	1: +V, 4: 0 V	A	E2E-X7D1-M1G *1
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NC	1: +V, 2: 0 V	D	E2E-X7D2-M1G
						NO	1: +V, 4: 0 V	A	E2E-X7D1-M1GJ 0.3M
					No *3	NC	1: +V, 2: 0 V	D	E2E-X7D2-M1GJ 0.3M
						NO	(3, 4): (+V, 0 V)	C	E2E-X7D1-M1J-T 0.3M
NC	(1, 2): (+V, 0 V)	D	E2E-X7D2-M1J-T 0.3M						
M30	10 mm		M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X10D1-M1TGJ 0.3M
			Pre-wired Models (2 m)	PVC (oil-resistant)		NO	---	---	E2E-X10D1-N 2M *1
			M12 Connector Models	---		NC	---	---	E2E-X10D2-N 2M
						NO	1: +V, 4: 0 V	A	E2E-X10D1-M1G *1
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NC	1: +V, 2: 0 V	D	E2E-X10D2-M1G
						NO	1: +V, 4: 0 V	A	E2E-X10D1-M1GJ 0.3M
					No *3	NC	1: +V, 2: 0 V	D	E2E-X10D2-M1GJ 0.3M
						NO	(3, 4): (+V, 0 V)	C	E2E-X10D1-M1J-T 0.3M
NC	(1, 2): (+V, 0 V)	D	E2E-X10D2-M1J-T 0.3M						

*1. Models with different frequencies are also available. The model number is E2E-X □D15 (example: E2E-X3D15-N 2M).

*2. Refer to page 15 for details.

*3. The residual voltage for models without polarity is 5 V, so use caution concerning the connection load interface conditions (e.g., PLC ON voltage). Refer to page 19

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. Refer to the catalog (Cat. No. D120) for details.

2-Wire Models

Shielded DC 2-Wire UL-recognized Models with No Self-diagnostic Output [Refer to *Dimensions* on page 20.]



Appearance	Sensing distance		Connection method	Cable specifications	Polarity	Operation mode	Pin arrangement	Applicable connector code *	Model				
M8	2 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X2D1-M1TGJ-US 0.3M				
			NC			1: +V, 2: 0 V	E2E-X2D2-M1TGJ-US 0.3M						
			NO			---	---	E2E-X2D1-US 2M					
			NC			---	---	E2E-X2D2-US 2M					
M12	3 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)			PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X3D1-M1TGJ-US 0.3M		
			NC					1: +V, 2: 0 V	E2E-X3D2-M1TGJ-US 0.3M				
			NO					---	---	E2E-X3D1-US 2M			
			NC					---	---	E2E-X3D2-US 2M			
M18	7 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)					PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X7D1-M1TGJ-US 0.3M
			NC							1: +V, 2: 0 V	E2E-X7D2-M1TGJ-US 0.3M		
			NO							---	---	E2E-X7D1-US 2M	
			NC							---	---	E2E-X7D2-US 2M	
M30	10 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)	PVC (oil-resistant)	Yes					NO	1: +V, 4: 0 V	E	E2E-X10D1-M1TGJ-US 0.3M
			NC							1: +V, 2: 0 V	E2E-X10D2-M1TGJ-US 0.3M		
			NO							---	---	E2E-X10D1-US 2M	
			NC							---	---	E2E-X10D2-US 2M	

* Refer to page 15 for details.

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. Refer to the catalog (Cat. No. D120) for details.

2-Wire Models

Unshielded DC 2-Wire Models with No Self-diagnosis Output [Refer to Dimensions on page 20.]



Appearance	Sensing distance		Connection method	Cable specifications	Polarity	Operation mode	Pin arrangement	Applicable connector code *2	Model		
M8	4 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	Yes	NO	---	---	E2E-X4MD1 2M		
			M12 Connector Models	---		NC			E2E-X4MD2 2M		
			M8 Connector Models	---		NO	1: +V, 4: 0 V	A	E2E-X4MD1-M1G		
						NC	1: +V, 2: 0 V	D	E2E-X4MD2-M1G		
			M12 Pre-wired Smart-click Connector Models (0.3m)	8 mm			PVC (oil-resistant)	NO	1: +V, 4: 0 V	E	E2E-X8MD1-M1TGJ 0.3M
								NO	---	---	E2E-X8MD1 2M *1
Pre-wired Models (2 m)	PVC (oil-resistant)	NC	---	---		E2E-X8MD2 2M					
		M12 Connector Models	---	NO		1: +V, 4: 0 V	A	E2E-X8MD1-M1G *1			
M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	NC	1: +V, 2: 0 V	D		E2E-X8MD2-M1G					
		NO	1: +V, 4: 0 V	A		E2E-X8MD1-M1GJ 0.3M					
M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	NC	1: +V, 2: 0 V	D		---					
		M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	NO		1: +V, 4: 0 V	E	E2E-X14MD1-M1TGJ 0.3M			
M18	14 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X14MD1 2M *1			
			M12 Connector Models	---	NC	---	---	E2E-X14MD2 2M			
					NO	1: +V, 4: 0 V	A	E2E-X14MD1-M1G *1			
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	NC	1: +V, 2: 0 V	D	E2E-X14MD2-M1G			
					NO	1: +V, 4: 0 V	A	E2E-X14MD1-M1GJ 0.3M			
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	NC	1: +V, 2: 0 V	D	E2E-X14MD2-M1GJ 0.3M			
M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	NO			1: +V, 4: 0 V	E	E2E-X20MD1-M1TGJ 0.3M				
M30	20 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X20MD1 2M *1			
			M12 Connector Models	---	NC	---	---	E2E-X20MD2 2M			
					NO	1: +V, 4: 0 V	A	E2E-X20MD1-M1G *1			
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	NC	1: +V, 2: 0 V	D	E2E-X20MD2-M1G			
					NO	1: +V, 4: 0 V	A	E2E-X20MD1-M1GJ 0.3M			
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	NC	1: +V, 2: 0 V	D	---			

*1. Models with different frequencies are also available. The model number is E2E-X □D15 (example: E2E-X8MD15 2M).

*2. Refer to page 15 for details.

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. Refer to the catalog (Cat. No. D120) for details.

2-Wire Models

Unshielded DC 2-Wire UL-recognized Models with No Self-diagnostic Output [Refer to Dimensions on page 20.]



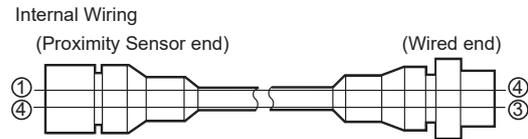
Appearance	Sensing distance		Connection method	Cable specifications	Polarity	Operation mode	Pin arrangement	Applicable connector code *	Model
M8	4 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X4MD1-M1TGJ-US 0.3M
			NC			1: +V, 2: 0 V	E2E-X4MD2-M1TGJ-US 0.3M		
			NO			---	---	E2E-X4MD1-US 2M	
			NC			---	---	E2E-X4MD2-US 2M	
M12	8 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)			E	NO	1: +V, 4: 0 V	E2E-X8MD1-M1TGJ-US 0.3M
			NC				1: +V, 2: 0 V	E2E-X8MD2-M1TGJ-US 0.3M	
			NO			---	---	E2E-X8MD1-US 2M	
			NC			---	---	E2E-X8MD2-US 2M	
M18	14 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)		E	NO	1: +V, 4: 0 V	E2E-X14MD1-M1TGJ-US 0.3M	
			NC			1: +V, 2: 0 V	E2E-X14MD2-M1TGJ-US 0.3M		
			NO		---	---	E2E-X14MD1-US 2M		
			NC		---	---	E2E-X14MD2-US 2M		
M30	20 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)		E	NO	1: +V, 4: 0 V	E2E-X20MD1-M1TGJ-US 0.3M	
			NC			1: +V, 2: 0 V	E2E-X20MD2-M1TGJ-US 0.3M		
			NO		---	---	E2E-X20MD1-US 2M		
			NC		---	---	E2E-X20MD2-US 2M		

* Refer to page 15 for details.

Connector Pin Assignments of DC 2-Wire Models

- The connector pin assignments of each New E2E DC 2-Wire Model conform to IEC 947-5-2 Table III. (Only DC 2-Wire Models have been changed in comparison to the previous models.)
- The following models with conventional connector pin assignments are available as well. (Only NO Models can be used.)
The cable at the right should also be used if the XW3D-P□55-G11/XW3B-P□55-G11 Connector Junction Box is already being used.

Cable length	Model
500 mm	XS2W-D421-BY1



Models with conventional connector pin assignments are available as well.

Appearance		Model			
		NO	Applicable connector code *	NC	Applicable connector code *
Shielded	M8	E2E-X2D1-M1	C	E2E-X2D2-M1	D
	M12	E2E-X3D1-M1	C	E2E-X3D2-M1	D
	M18	E2E-X7D1-M1	C	E2E-X7D2-M1	D
	M30	E2E-X10D1-M1	C	E2E-X10D2-M1	D
Unshielded	M8	E2E-X4MD1-M1	C	E2E-X4MD2-M1	D
	M12	E2E-X8MD1-M1	C	E2E-X8MD2-M1	D
	M18	E2E-X14MD1-M1	C	E2E-X14MD2-M1	D
	M30	E2E-X20MD1-M1	C	E2E-X20MD2-M1	D

* Refer to page 15 for details.

Note: DC 3-Wire Models have been discontinued at the end of March 2022.
Refer to the catalog (Cat. No. D120) for details.

3-Wire Models

Shielded DC 3-Wire Models [Refer to *Dimensions* on page 20.]



Appearance	Sensing distance			Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable connector code *2	Model	
									NPN output	PNP output
M8	1.5 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X1R5E1 2M	E2E-X1R5F1 2M
					PVC (oil-resistant)	NC			E2E-X1R5E2 2M	E2E-X1R5F2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X1R5E1-M1	E2E-X1R5F1-M1
						NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X1R5E2-M1	E2E-X1R5F2-M1
				M8 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	F	E2E-X1R5E1-M3	E2E-X1R5F1-M3
						NC	1: +V, 3: 0 V, 2: Control output		E2E-X1R5E2-M3	E2E-X1R5F2-M3
M12	2 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X2E1 2M *1	E2E-X2F1 2M *1
					PVC (oil-resistant)	NC			E2E-X2E2 2M	E2E-X2F2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X2E1-M1	E2E-X2F1-M1
						NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X2E2-M1	E2E-X2F2-M1
M18	5 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X5E1 2M *1	E2E-X5F1 2M *1
					PVC (oil-resistant)	NC			E2E-X5E2 2M	E2E-X5F2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X5E1-M1	E2E-X5F1-M1
						NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X5E2-M1	E2E-X5F2-M1
M30	10 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X10E1 2M *1	E2E-X10F1 2M
					PVC (oil-resistant)	NC			E2E-X10E2 2M	E2E-X10F2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X10E1-M1	E2E-X10F1-M1
						NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X10E2-M1	E2E-X10F2-M1

*1. Models with different frequencies are also available. The model number is E2E-X□□□5 (example: E2E-X5E15 2M).

*2. Refer to page 15 for details.

Note: DC 3-Wire Models have been discontinued at the end of March 2022.
Refer to the catalog (Cat. No. D120) for details.

3-Wire Models

Unshielded DC 3-Wire Models [Refer to Dimensions on page 20.]



Appearance	Sensing distance		Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable connector code *2	Model	
								NPN output	PNP output
M8	2 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X2ME1 2M	E2E-X2MF1 2M
					NC			E2E-X2ME2 2M	E2E-X2MF2 2M
			M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X2ME1-M1	E2E-X2MF1-M1
					NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X2ME2-M1	E2E-X2MF2-M1
			M8 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	F	E2E-X2ME1-M3	E2E-X2MF1-M3
					NC	1: +V, 3: 0 V, 2: Control output		E2E-X2ME2-M3	E2E-X2MF2-M3
M12	5 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X5ME1 2M *1	E2E-X5MF1 2M
					NC			E2E-X5ME2 2M	E2E-X5MF2 2M
			M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X5ME1-M1	E2E-X5MF1-M1
					NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X5ME2-M1	E2E-X5MF2-M1
M18	10 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X10ME1 2M *1	E2E-X10MF1 2M
					NC			E2E-X10ME2 2M	E2E-X10MF2 2M
			M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X10ME1-M1	E2E-X10MF1-M1
					NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X10ME2-M1	E2E-X10MF2-M1
M30	18 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X18ME1 2M *1	E2E-X18MF1 2M
					NC			E2E-X18ME2 2M	E2E-X18MF2 2M
			M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X18ME1-M1	E2E-X18MF1-M1
					NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X18ME2-M1	E2E-X18MF2-M1

*1. Models with different frequencies are also available. The model number is E2E-X□M□□□5 (example: E2E-X5ME15 2M).

*2. Refer to page 15 for details.

Ratings and Specifications

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. Refer to the catalog (Cat. No. D120) for details.

E2E-X□D□ DC 2-Wire Models

Size	M8		M12		M18		M30	
	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded
Item	Model		Model		Model		Model	
	E2E-X2D□	E2E-X4MD□	E2E-X3D□	E2E-X8MD□	E2E-X7D□	E2E-X14MD□	E2E-X10D□	E2E-X20MD□
Sensing distance	2 mm ±10%	4 mm ±10%	3 mm ±10%	8 mm ±10%	7 mm ±10%	14 mm ±10%	10 mm ±10%	20 mm ±10%
Set distance *1	0 to 1.6 mm	0 to 3.2 mm	0 to 2.4 mm	0 to 6.4 mm	0 to 5.6 mm	0 to 11.2 mm	0 to 8 mm	0 to 16 mm
Differential travel	15% max. of sensing distance		10% max. of sensing distance					
Detectable object	Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on pages 11 and 12.)							
Standard sensing object	Iron, 8 × 8 × 1 mm	Iron, 20 × 20 × 1 mm	Iron, 12 × 12 × 1 mm	Iron, 30 × 30 × 1 mm	Iron, 18 × 18 × 1 mm	Iron, 30 × 30 × 1 mm		Iron, 54 × 54 × 1 mm
Response frequency *2	1.5 kHz	1 kHz		0.8 kHz	0.5 kHz	0.4 kHz		0.1 kHz
Power supply voltage (operating voltage range)	Standard Models: 12 to 24 VDC, ripple (p-p): 10% max. (10 to 30 VDC) US Models and Connector Models Used as UL-certified Models: 12 to 24 VDC, ripple (p-p): 10% max. (The operating voltage range is also the same.) *3							
Leakage current	0.8 mA max.							
Control output	Load current	3 to 100 mA, Diagnostic output: 50 mA for -D1(5)S Models						
	Residual voltage *4	3 V max. (Load current: 100 mA, Cable length: 2 m, M1J-T Models only: 5 V max.)						
Indicators	D1 Models: Operation indicator (red) and setting indicator (green) D2 Models: Operation indicator (red)							
Operation mode (with sensing object approaching)	D1 Models: NO Refer to the timing charts under <i>I/O Circuit Diagrams</i> on page 13 for details. D2 Models: NC							
Diagnostic output delay	0.3 to 1 s							
Protection circuits	Surge suppressor, Load short-circuit protection (for control and diagnostic output)							
Ambient temperature range	Operating: -25 to 70°C, Storage: -40 to 85°C (with no icing or condensation)							
Ambient humidity range	Operating/storage: 35% to 95% (with no condensation)							
Temperature influence	±15% max. of sensing distance at 23°C in the temperature range of -25 to 70°C		±10% max. of sensing distance at 23°C in the temperature range of -25 to 70°C					
Voltage influence	±1% max. of sensing distance at rated voltage in the rated voltage ±15% range							
Insulation resistance	50 MΩ min. (at 500 VDC) between current-carrying parts and case							
Dielectric strength	1000 VAC, 50/60 Hz for 1 minute between current carry parts and case							
Vibration resistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions							
Shock resistance	Destruction: 500 m/s ² 10 times each in X, Y, and Z directions			Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions				
Degree of protection	Pre-wired Models: IEC 60529 IP67, in-house standards: oil-resistant Connector Models: IEC 60529 IP67							
Connection method	Pre-wired Models (Standard cable length: 2 m), Connector Models, or Pre-wired Connector Models (Standard cable length: 0.3 m)							
Weight (packed state)	Pre-wired Models	Approx. 60 g		Approx. 70 g		Approx. 130 g		Approx. 175 g
	Pre-wired Connector Models	---		Approx. 40 g		Approx. 70 g		Approx. 110 g
	Connector Models	Approx. 15 g		Approx. 25 g		Approx. 40 g		Approx. 90 g
Materials	Case	Stainless steel (SUS303)		Nickel-plated brass				
	Sensing surface	PBT						
	Clamping nuts	Nickel-plated brass						
	Toothed washer	Zinc-plated iron						
Accessories	Instruction manual							

*1. Use the E2E within the range in which the setting indicator (green LED) is ON (except D2 Models).

*2. The response frequency is an average value.

Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

*3. For the information on UL-certified connector models, refer to your OMRON website.

*4. The residual voltage of each M1J-T Model is 5 V. When connecting to a device, make sure that the device can withstand the residual voltage. (Refer to page 19 for details.)

Note: DC 3-Wire Models have been discontinued at the end of March 2022.
Refer to the catalog (Cat. No. D120) for details.

E2E-X□E□/F□ DC 3-Wire Models

Item	Size Shielded Model	M8		M12		M18		M30	
		Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded
		E2E -X1R5E□/F□	E2E -X2ME□/F□	E2E -X2E□/F□	E2E -X5ME□/F□	E2E -X5E□/F□	E2E -X10ME□/F□	E2E-X10E□/ F□	E2E -X18ME□/F□
Sensing distance		1.5 mm ±10%	2 mm ±10%		5 mm ±10%		10 mm ±10%		18 mm ±10%
Set distance		0 to 1.2 mm	0 to 1.6 mm		0 to 4 mm		0 to 8 mm		0 to 14 mm
Differential travel		10% max. of sensing distance							
Detectable object		Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 12.)							
Standard sensing object		Iron, 8 × 8 × 1 mm	Iron, 12 × 12 × 1 mm		Iron, 15 × 15 × 1 mm	Iron, 18 × 18 × 1 mm	Iron, 30 × 30 × 1 mm		Iron, 54 × 54 × 1 mm
Response frequency *1		2 kHz	0.8 kHz	1.5 kHz	0.4 kHz	0.6 kHz	0.2 kHz	0.4 kHz	0.1 kHz
Power supply voltage (operating voltage range) *2		12 to 24 VDC, ripple(p-p): 10% max. (10 to 30 VDC) Connector Models Used as UL-certified Models: 12 to 24 VDC, ripple (p-p): 10% max. (The operating voltage range is also the same.) *3							
Current consumption		13 mA max.							
Control output	Load current *2	200 mA max.							
	Residual voltage	2 V max. (Load current: 200 mA, Cable length: 2 m)							
Indicators		Operation indicator (red)							
Operation mode (with sensing object approaching)		E1/F1 Models: NO E2/F2 Models: NC Refer to the timing charts under <i>/O Circuit Diagrams</i> on page 14 for details.							
Protection circuits		Load short-circuit protection, Surge suppressor, Reverse polarity protection							
Ambient temperature range *2		Operating/Storage: -40 to 85°C (with no icing or condensation)							
Ambient humidity range		Operating/Storage: 35% to 95% (with no condensation)							
Temperature influence		±15% max. of sensing distance at 23°C in the temperature range of -40 to 85°C ±10% max. of sensing distance at 23°C in the temperature range of -25 to 70°C							
Voltage influence		±1% max. of sensing distance at rated voltage in the rated voltage ±15% range							
Insulation resistance		50 MΩ min. (at 500 VDC) between current-carrying parts and case							
Dielectric strength		1,000 VAC, 50/60 Hz for 1 minute between current carry parts and case							
Vibration resistance		Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions							
Shock resistance		Destruction: 500 m/s ² 10 times each in X, Y, and Z directions		Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions					
Degree of protection		Pre-wired Models : IEC 60529 IP67, in-house standards: oil-resistant Connector Models : IEC 60529 IP67							
Connection method		Pre-wired Models (Standard cable length: 2 m) and Connector Models							
Weight (packed state)	Pre-wired Models	Approx. 65 g		Approx. 75 g		Approx. 150 g		Approx. 195 g	
	Connector Models	Approx. 15 g		Approx. 25 g		Approx. 40 g		Approx. 90 g	
Materials	Case	Stainless steel (SUS303)		Nickel-plated brass					
	Sensing surface	PBT							
	Clamping nuts	Nickel-plated brass							
	Toothed washer	Zinc-plated iron							
Accessories		Instruction manual							

*1. The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

*2. When using an M8 Model at an ambient temperature between 70 and 85°C, supply 10 to 30 VDC to the Sensor and make sure that the Sensor has a control output of 100 mA maximum.

*3. For the information on UL-certified connector models, refer to your OMRON website.

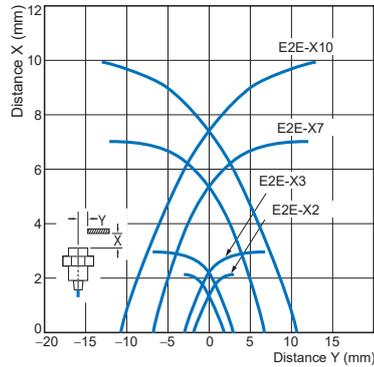
Engineering Data (Reference Value)

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

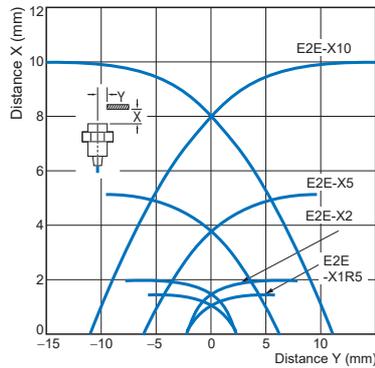
Sensing Area

Shielded Models

E2E-X□D□

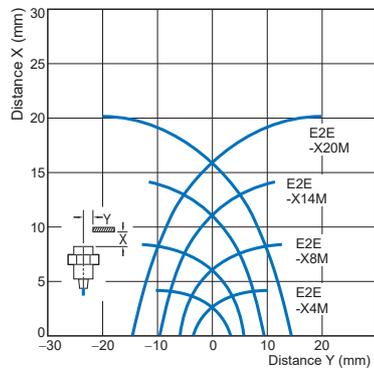


E2E-X□E□/-X□F□

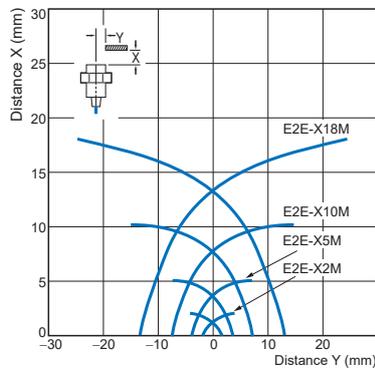


Unshielded Models

E2E-X□MD□

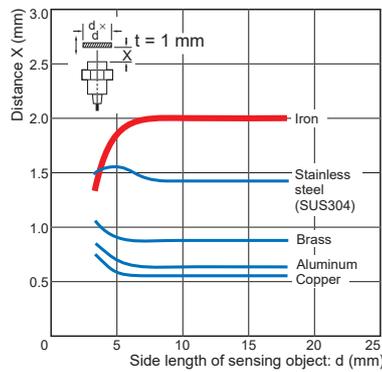


E2E-X□ME□/-X□MF□

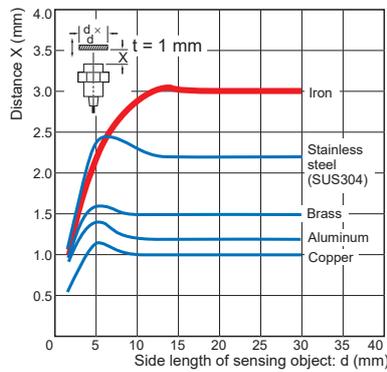


Influence of Sensing Object Size and Material

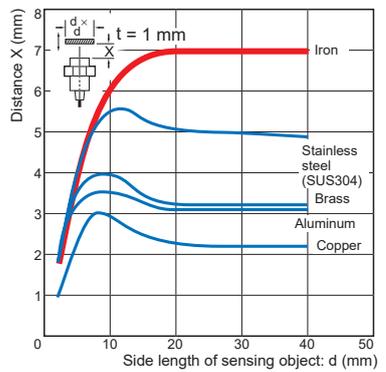
E2E-X2D□



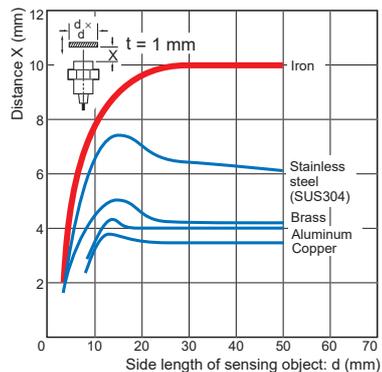
E2E-X3D□



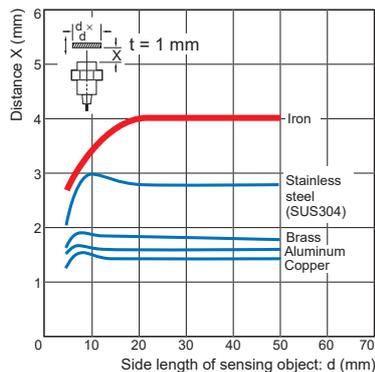
E2E-X7D□



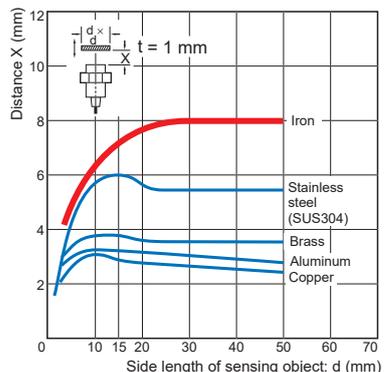
E2E-X10D□



E2E-X4MD□

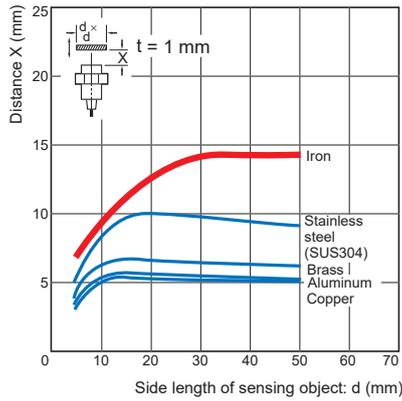


E2E-X8MD□

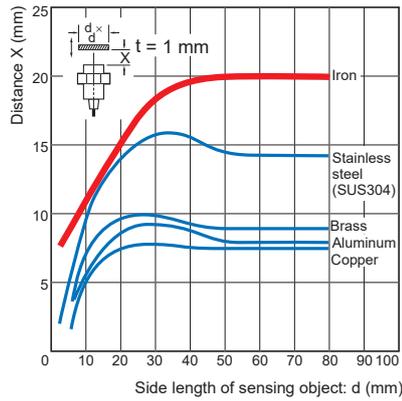


Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

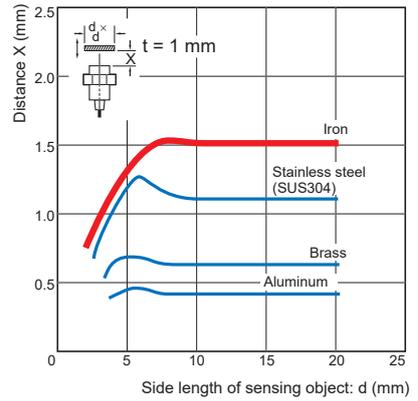
E2E-X14MD



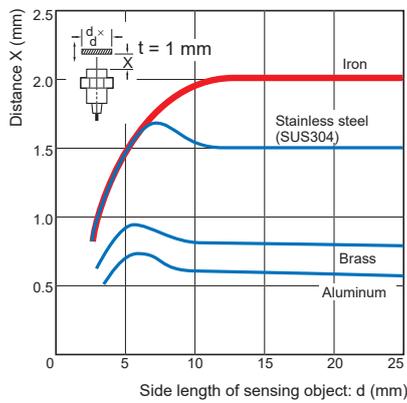
E2E-X20MD



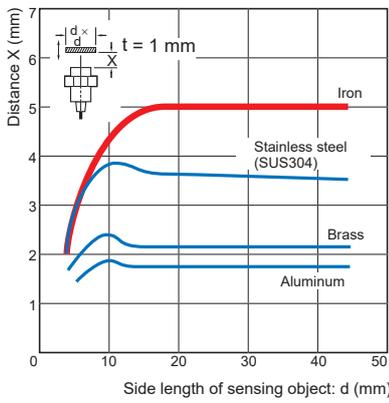
E2E-X1R5E/-X1R5F



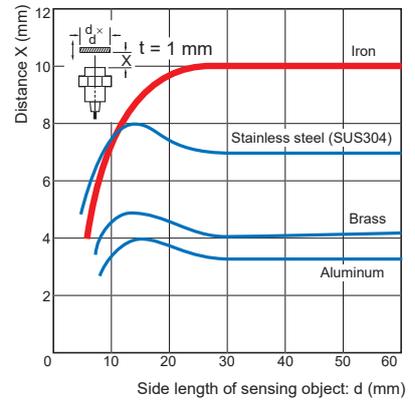
E2E-X2E/-X2F



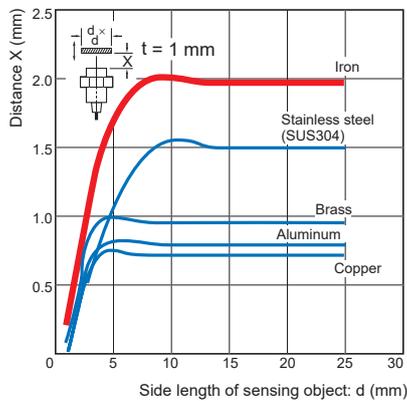
E2E-X5E/-X5F



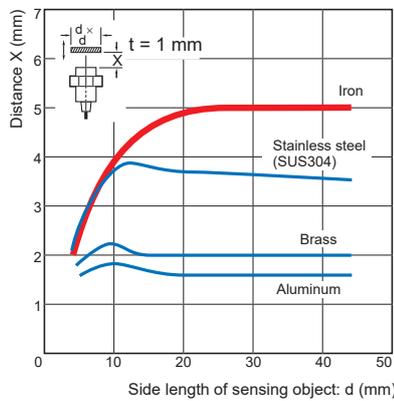
E2E-X10E/-X10F



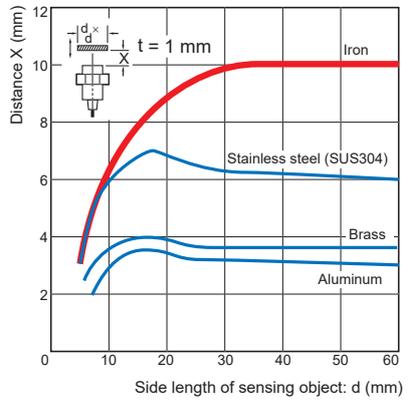
E2E-X2ME/-X2MF



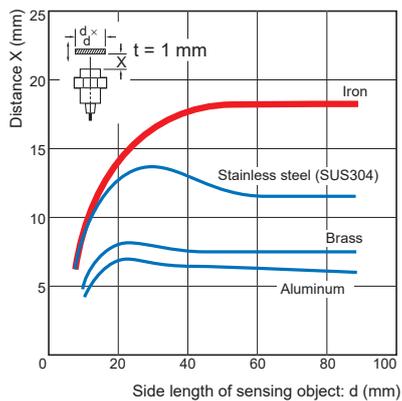
E2E-X5ME/-X5MF



E2E-X10ME/-X10MF

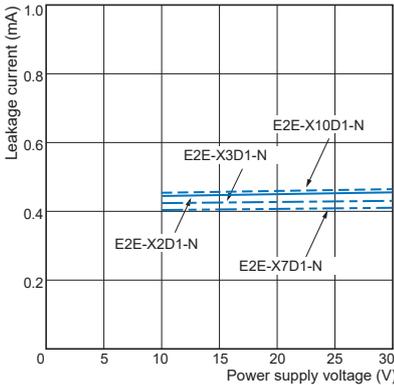


E2E-X18ME/-X18MF



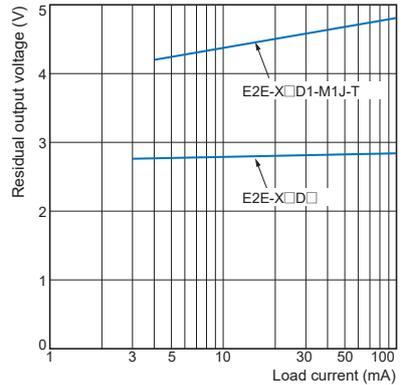
Leakage Current

E2E-X□D□



Residual Output Voltage

E2E-X□D□



I/O Circuit Diagrams

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. Refer to the catalog (Cat. No. D120) for details.

E2E-X□D□ DC 2-Wire Models

Operation mode	Model	Timing Chart	Output circuit
<p>Without self-diagnostic output: NO</p>	<p>E2E-X□D1-N E2E-X□D1-M1G(J) E2E-X□D1-M3G E2E-X□D1(-M1TGJ)-US</p>		<p>Polarity: Yes</p> <p>Note: The load can be connected to either the +V or 0 V side.</p>
	<p>E2E-X□D1-M1J-T</p>		<p>Polarity: None</p> <p>Note 1. The load can be connected to either the +V or 0 V side. 2. The E2E-X□D1-M1J-T has no polarity. Therefore, terminals 3 and 4 have no polarity.</p>
<p>Without self-diagnostic output: NC</p>	<p>E2E-X□D2-N E2E-X□D2-M1G E2E-X□D2-M3G E2E-X□D2(-M1TGJ)-US</p>		<p>Note: The load can be connected to either the +V or 0 V side.</p>

Note: DC 3-Wire Models have been discontinued at the end of March 2022.
Refer to the catalog (Cat. No. D120) for details.

DC 3-Wire Models

Operation mode	Output specifications	Model	Timing Chart	Output circuit
NO NC	NPN output	E2E-X□E□ E2E-X□E□-M1 E2E-X□E□-M3	<p>Sensing object Present</p>	<p>*Constant current output is 1.5 to 3 mA. Note: For Connector Models, the connection between pins 1, 4 and 3 uses an NO contact, and the connection between pins 1, 2 and 3 uses an NC contact.</p>
			<p>Sensing object Present</p>	
NO NC	PNP output	E2E-X□F□ E2E-X□F□-M1 E2E-X□F□-M3	<p>Sensing object Present</p>	<p>*When a transistor is connected Note: For Connector Models, the connection between pins 1, 4 and 3 uses an NO contact, and the connection between pins 1, 2 and 3 uses an NC contact.</p>
			<p>Sensing object Present</p>	

Sensor I/O Connectors (Sockets on One Cable End)

Model for Connectors and Pre-wired Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.

[Refer to Dimensions for the XS2, XS3, and XS5.]

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Applicable connector code	Screw	Appearance *1	Connector		Applicable Proximity Sensor model number	Connection diagram No. *2
			Cable length 2m CablConnector model number	Cable length 5m CablConnector model number		
A	M12	Straight	XS2F-D421-DA0-F	XS2F-D421-GA0-F	E2E-X□D1-M1G(J)	1
		L-shape	XS2F-D422-DA0-F	XS2F-D422-GA0-F		
B		Straight	XS2F-D421-DC0-F	XS2F-D421-GC0-F	E2E-X□E1-M1 E2E-X□F1-M1	9
		L-shape	XS2F-D422-DC0-F	XS2F-D422-GC0-F		
C		Straight	XS2F-D421-DD0	XS2F-D421-GD0	E2E-X□D1-M1J-T	3
			E2E-X□D1-M1	2		
		L-shape	XS2F-D422-DD0	XS2F-D422-GD0	E2E-X□D1-M1J-T	3
			E2E-X□D1-M1	2		
D		Straight	XS2F-D421-D80-F	XS2F-D421-G80-F	E2E-X□D2-M1G(J)	5
					E2E-X□D2-M1J-T	7
	E2E-X□D2-M1				6	
	E2E-X□E2-M1 E2E-X□F2-M1				10	
	E2E-X□D2-M1G(J)				5	
	L-shape	XS2F-D422-D80-F	XS2F-D422-G80-F	E2E-X□D2-M1J-T	7	
				E2E-X□D2-M1	6	
				E2E-X□E2-M1 E2E-X□F2-M1	10	
				E2E-X□D1-M1TGJ(-US)	13	
				E2E-X□D2-M1TGJ-US	14	
E	M8	Straight	XS3F-M421-402-A	XS3F-M421-405-A	E2E-X□D1-M3G	4
					E2E-X□D2-M3G	8
					E2E-X□E1-M3 E2E-X□F1-M3	11
					E2E-X□E2-M3 E2E-X□F2-M3	12
					E2E-X□D1-M3G	4
		L-shape	XS3F-M422-402-A	XS3F-M422-405-A	E2E-X□D2-M3G	8
					E2E-X□E1-M3 E2E-X□F1-M3	11
					E2E-X□E2-M3 E2E-X□F2-M3	12
					E2E-X□D1-M3G	4
					E2E-X□D2-M3G	8

Note: Refer to Introduction to Sensor I/O Connectors/Sensor Controllers for details and for information on Cable length and Robotics Cables.

*1. Images of straight and L-shaped connectors.

M12 Straight



M12 L-shape



M8 Straight



M8 L-shape



*2. Refer to Connection Diagrams on page 16 for information on Proximity Sensor and I/O Connector connections.

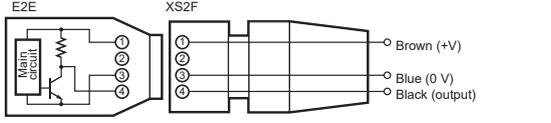
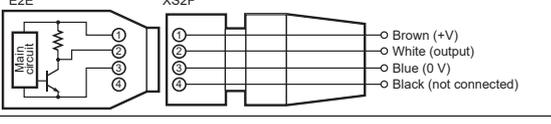
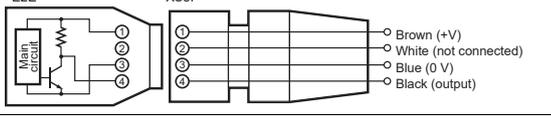
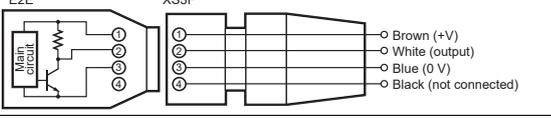
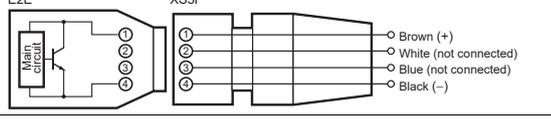
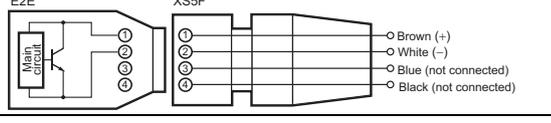
Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Connections for Sensor I/O Connectors

Connection diagram No.	Proximity Sensor			Sensor I/O Connector model number	Connections
	Type	Operation mode	Model		
1	DC 2-wire (IEC pin wiring)	NO	E2E-X□D1-M1G/M1GJ	XS2F-D42□□A0-F 1: Straight 2: L-shape D: 2-m cable G: 5-m cable	
2	DC 2-wire (previous pin wiring)		E2E-X□D1-M1	XS2F-D42□□D0 1: Straight 2: L-shape D: 2-m cable G: 5-m cable	
3	DC 2-wire (no polarity)		E2E-X□D1-M1J-T	XS2F-D42□□D0 1: Straight 2: L-shape D: 2-m cable G: 5-m cable	
4	DC 2-wire (M8 connector)		E2E-X□D1-M3G	XS3F-M42□□40□-A 1: Straight 2: L-shape 2: 2-m cable 5: 5-m cable	
5	DC 2-wire (IEC pin wiring)	NC	E2E-X□D2-M1G/M1GJ	XS2F-D42□□80-F 1: Straight 2: L-shape D: 2-m cable G: 5-m cable	
6	DC 2-wire (previous pin wiring)		E2E-X□D2-M1	XS2F-D42□□80-F 1: Straight 2: L-shape D: 2-m cable G: 5-m cable	
7	DC 2-wire (no polarity)		E2E-X□D2-M1J-T	XS2F-D42□□80-F 1: Straight 2: L-shape D: 2-m cable G: 5-m cable	
8	DC 2-wire (M8 connector)		E2E-X□D2-M3G	XS3F-M42□□40□-A 1: Straight 2: L-shape 2: 2-m cable 5: 5-m cable	

* Different from Proximity Sensor wire colors.

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Connection diagram No.	Proximity Sensor			Sensor I/O Connector model number	Connections
	Type	Operation mode	Model		
9	DC 3-wire	NO	E2E-X□E/F1-M1	XS2F-D42□□C0-F 1: Straight 2: L-shape D: 2-m cable G: 5-m cable	
10		NC	E2E-X□E2/F2-M1	XS2F-D42□□80-F 1: Straight 2: L-shape D: 2-m cable G: 5-m cable	
11	DC 3-wire (M8 connector)	NO	E2E-X□E1/F1-M3	XS3F-M42□□40□-A 1: Straight 2: L-shape 2: 2-m cable 5: 5-m cable	
12		NC	E2E-X□E2/F2-M3	XS3F-M42□□40□-A 1: Straight 2: L-shape 2: 2-m cable 5: 5-m cable	
13	DC 2-wire (Smartclick connector)	NO	E2E-X□D1-M1TGJ(-US)	XS5F-D421□□80-F D: 2-m cable G: 5-m cable	
14		NC	E2E-X□D2-M1TGJ-US	XS5F-D421□□80-F D: 2-m cable G: 5-m cable	

Refer to *Introduction to Sensor I/O Connectors/Sensor Controllers* for details.

E2E

Safety Precautions

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Refer to Warranty and Limitations of Liability.

⚠ WARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



⚠ CAUTION

- Do not short the load. Explosion or burning may result.
- Do not supply power to the Sensor with no load, otherwise Sensor may be damaged.



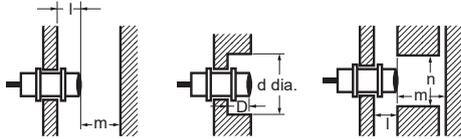
Precautions for Correct Use

Do not use this product under ambient conditions that exceed the ratings.

Design

Influence of Surrounding Metal

When mounting the Sensor within a metal panel, ensure that the clearances given in the following table are maintained. Failure to maintain these distances may cause deterioration in the performance of the Sensor.



Influence of Surrounding Metal

(Unit: mm)

Model		Item	M8	M12	M18	M30
DC 2-Wire Models E2E-X□D□	Shielded	l	0			
		d	8	12	18	30
		D	0			
		m	4.5	8	20	40
		n	12	18	27	45
	Unshielded	l	12	15	22	30
		d	24	40	70	90
		D	12	15	22	30
		m	8	20	40	70
		n	24	40	70	90
DC 3-Wire Models E2E-X□E□ E2E-X□F□	Shielded	l	0			
		d	8	12	18	30
		D	0			
		m	4.5	8	20	40
		n	12	18	27	45
	Unshielded	l	6	15	22	30
		d	24	40	55	90
		D	6	15	22	30
		m	8	20	40	70
		n	24	36	54	90

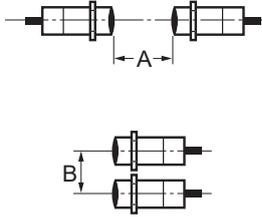
Relationship between Sizes and Models

Model		Model	
M8	Shielded	E2E-X2D□	
		E2E-X1R5E□ E2E-X1R5F□	
	Unshielded	E2E-X4MD□ E2E-X2ME□ E2E-X2MF□	
M12	Shielded	E2E-X3D□ E2E-X2E□ E2E-X2F□	
		Unshielded	E2E-X8MD□ E2E-X5ME□ E2E-X5MF□
			Shielded
	Unshielded	E2E-X14MD□ E2E-X10ME□ E2E-X10MF□	
		M30	Shielded
Unshielded	E2E-X20MD□ E2E-X18ME□ E2E-X18MF□		

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Mutual Interference

When installing Sensors face-to-face or side-by-side, ensure that the minimum distances given in the following table are maintained.



Mutual Interference

(Unit: mm)

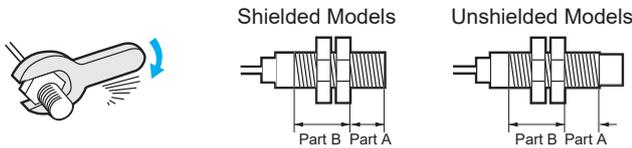
Model	Item	M8	M12	M18	M30	
DC 2-Wire Models E2E-X□D□	Shielded	A	20	30 (20)	50 (30)	100 (50)
		B	15	20 (12) *	35 (18) *	70 (35)
	Unshielded	A	80	120 (60)	200 (100)	300 (100)
		B	60	100 (50)	110 (60)	200 (100)
DC 3-Wire Models E2E-X□E□/X□F□	Shielded	A	20	30 (20)	50 (30)	100 (50)
		B	15	20 (12) *	35 (18) *	70 (35)
	Unshielded	A	80	120 (60)	200 (100)	300 (100)
		B	60	100 (50)	110 (60)	200 (100)

Note: Values in parentheses apply to Sensors operating at different frequencies.
* Mutual interference will not occur for close-proximity mounting if models with different frequencies are used together.

Mounting

Tightening Force

Do not tighten the nut with excessive force. A washer must be used with the nut.



Note: 1. The allowable tightening strength depends on the distance from the edge of the head, as shown in the following table. (A is the distance from the edge of the head. B includes the nut on the head side. If the edge of the nut is in part A, the tightening torque for part A applies instead.)
2. The following strengths assume washers are being used.

Model		Part A		Part B
		Dimension	Torque	Torque
M8	Shielded	9	9 N·m	12 N·m
	Unshielded	3		
M12			30 N·m	
M18			70 N·m	
M30			180 N·m	

Connecting a DC 2-Wire Proximity Sensor to a PLC (Programmable Controller)

Required Conditions

Connection to a PLC is possible if the specifications of the PLC and the Proximity Sensor satisfy the following conditions. (The meanings of the symbols are given at the right.)

1. The ON voltage of the PLC and the residual voltage of the Proximity Sensor must satisfy the following.

$$V_{ON} \leq V_{CC} - V_R$$

2. The OFF current of the PLC and the leakage current of the Proximity Sensor must satisfy the following.

$$I_{OFF} \geq I_{leak}$$

(If the OFF current is not listed in the PLC's input specifications, take it to be 1.3 mA.)

3. The ON current of the PLC and the control output of the Proximity Sensor must satisfy the following.

$$I_{OUT} (\text{min.}) \leq I_{ON} \leq I_{OUT} (\text{max.})$$

The ON current of the PLC will vary, however, with the power supply voltage and the input impedance, as shown in the following equation.

$$I_{ON} = (V_{CC} - V_R - \underline{V_{PC}}) / R_{IN}$$

Example

In this example, the above conditions are checked when the Proximity Sensor is the E2E-X7D1-N and the power supply voltage is 24 V.

1. $V_{ON} (14.4 \text{ V}) \leq V_{CC} (20.4 \text{ V}) - V_R (3 \text{ V}) = 17.4 \text{ V}$: OK

2. $I_{OFF} (1.3 \text{ mA}) \geq I_{leak} (0.8 \text{ mA})$: OK

3. $I_{ON} = [V_{CC} (20.4 \text{ V}) - V_R (3 \text{ V}) - \underline{V_{PC}} (4 \text{ V})] / R_{IN} (3 \text{ k}\Omega)$
= Approx. 4.5 mA

Therefore, $I_{OUT} (\text{min.}) (3 \text{ mA}) \leq I_{ON} (4.5 \text{ mA})$: OK

Connection is thus possible.

Connection Example (Reference)

PLC	V_{ON} : ON voltage (14.4 V) I_{ON} : ON current (typically 7 mA) I_{OFF} : OFF current (1.3 mA) R_{IN} : Input impedance (3 k Ω) $\underline{V_{PC}}$: Internal residual voltage (4 V)
Proximity Sensor	V_R : Output residual voltage (3 V) I_{leak} : Leakage current (0.8 mA) I_{OUT} : Control output (3 to 100 mA) V_{CC} : Power supply voltage (PLC: 20.4 to 26.4 V)

Dimensions

(Unit: mm)
Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

Main Units

Model Number-Dimensions Drawing Number Lookup Table

Model	Shielded	DC 2-Wire Models		DC 3-Wire Models		
		Model	No.	Model	No.	
Pre-wired Models	Shielded	M8	E2E-X2D□(-US)	1	E2E-X1R5E□/F□	1
		M12	E2E-X3D□(-US)	3	E2E-X2E□/F□	3
		M18	E2E-X7D□(-US)	5	E2E-X5E□/F□	5
		M30	E2E-X10D□(-US)	7	E2E-X10E□/F□	7
	Unshielded	M8	E2E-X4MD□(-US)	2	E2E-X2ME□/F□	2
		M12	E2E-X8MD□(-US)	4	E2E-X5ME□/F□	4
M18		E2E-X14MD□(-US)	6	E2E-X10ME□/F□	6	
M30		E2E-X20MD□(-US)	8	E2E-X18ME□/F□	8	
Connector Models (M12)	Shielded	M8	E2E-X2D□-M1(G)	9	E2E-X1R5E/F□-M1	9
		M12	E2E-X3D□-M1(G)	11	E2E-X2E/F□-M1	11
		M18	E2E-X7D□-M1(G)	13	E2E-X5E/F□-M1	13
		M30	E2E-X10D□-M1(G)	15	E2E-X10E/F□-M1	15
	Unshielded	M8	E2E-X4MD□-M1(G)	10	E2E-X2ME/F□-M1	10
		M12	E2E-X8MD□-M1(G)	12	E2E-X5ME/F□-M1	12
M18		E2E-X14MD□-M1(G)	14	E2E-X10ME/F□-M1	14	
M30		E2E-X20MD□-M1(G)	16	E2E-X18ME/F□-M1	16	
Connector Models (M8)	Shielded	M8	E2E-X2D□-M3G	17	E2E-X1R5E/F□-M3	17
	Unshielded		E2E-X4MD□-M3G	18	E2E-X2ME/F□-M3	18
Pre-wired Connector Models	Shielded	M8	E2E-X2D□-M1TGJ	19	---	
			E2E-X2D□-M1TGJ-US			
		M12	E2E-X3D□-M1(T)GJ	20		
			E2E-X3D□-M1TGJ-US			
		M18	E2E-X7D□-M1(T)GJ	21		
			E2E-X7D□-M1TGJ-US			
	M30	E2E-X10D□-M1(T)GJ	22			
		E2E-X10D□-M1TGJ-US				
	Unshielded	M8	E2E-X4MD□-M1TGJ-US	23		
		M12	E2E-X8MD1-M1(T)GJ	24		
			E2E-X8MD□-M1TGJ-US			
		M18	E2E-X14MD1-M1(T)GJ	25		
E2E-X14MD□-M1TGJ-US						
M30		E2E-X20MD1-M1(T)GJ	26			
	E2E-X20MD□-M1TGJ-US					
Pre-wired Connector Models (no polarity)	Shielded	M12	E2E-X3D1-M1J-T	20	---	
		M18	E2E-X7D□-M1J-T	21		
		M30	E2E-X10D□-M1J-T	22		

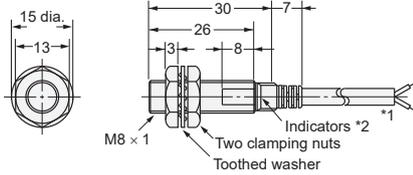
Note 1. Two clamping nuts and one toothed washer are provided with M8 to M30 Models.
2. The model numbers of M8 to M30 Pre-wired Models are laser-marked on the milled section and cable section.

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Pre-wired Models (Shielded)



Diagram 1 E2E-X2D□
E2E-X1R5E□/F□

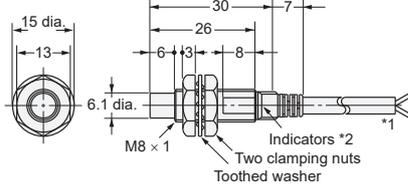


*1. 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
Robotics Cable Models:
 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
Models with Highly Oil-resistant Cables:
 4-dia. polyurethane-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
 The cable can be extended up to 200 m (separate metal conduit).
 *2. D1 Models: Operation indicator (red) and setting indicator (green), D2/E/F Models: Operation indicator (red)

Pre-wired Models (Unshielded)

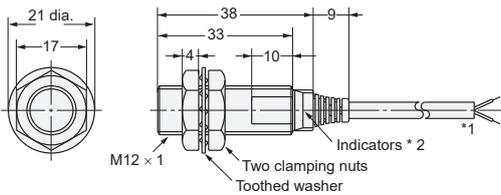


Diagram 2 E2E-X4MD□
E2E-X2ME□/F□



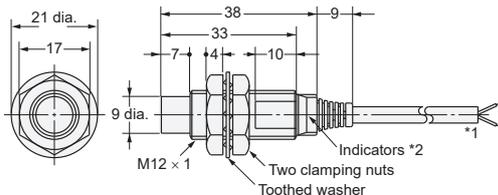
*1. 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
Robotics Cable Models:
 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
 The cable can be extended up to 200 m (separate metal conduit).
 *2. D1 Models: Operation indicator (red) and setting indicator (green), D2/E/F Models: Operation indicator (red)

Diagram 3 E2E-X3D□
E2E-X2E□/F□



*1. 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
Robotics Cable Models:
 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
Models with Highly Oil-resistant Cables:
 4-dia. polyurethane-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
 The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.
 *2. D1 Models: Operation indicator (red) and setting indicator (green), D2/E/F Models: Operation indicator (red)

Diagram 4 E2E-X8MD□
E2E-X5ME□/F□



*1. 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
Robotics Cable Models:
 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
 The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.
 *2. D1 Models: Operation indicator (red) and setting indicator (green), D2/E/F Models: Operation indicator (red)

Mounting Hole Dimensions



Dimension	M8	M12
F (mm)	8.5 ^{+0.5} ₀ dia.	12.5 ^{+0.5} ₀ dia.

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Pre-wired Models (Shielded)

Pre-wired Models (Unshielded)

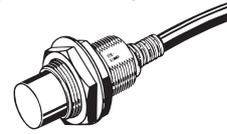
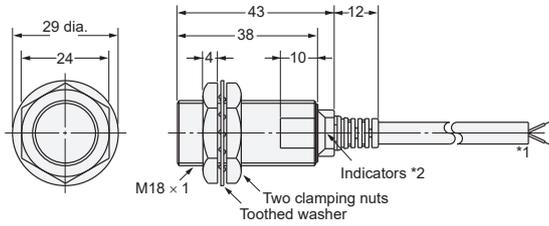
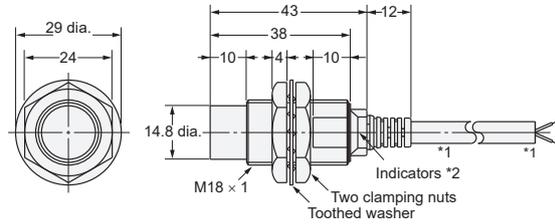


Diagram 5 E2E-X7D□/E2E-X5E□/F□



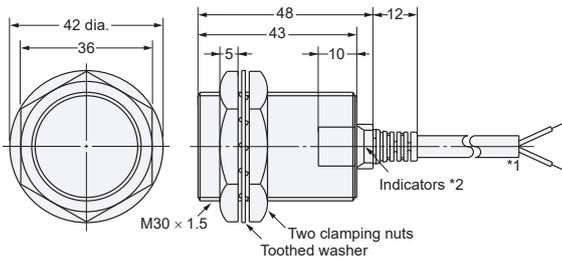
- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- Robotics Cable Models:
- 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
- 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
- Models with Highly Oil-resistant Cables:
- 6-dia. polyurethane-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.
- *2. D1 Models: Operation indicator (red), Setting indicator (green)
- D2/E/F Models: Operation indicator (red)

Diagram 6 E2E-X14MD□/E2E-X10ME□/F□



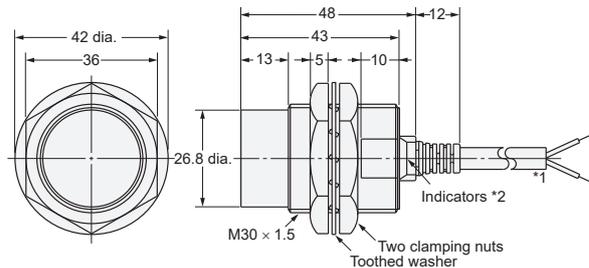
- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- Robotics Cable Models:
- 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
- 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
- The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.
- *2. D1 Models: Operation indicator (red), Setting indicator (green)
- D2/E/F Models: Operation indicator (red)

Diagram 7 E2E-X10D□/E2E-X10E□/F□



- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- Robotics Cable Models:
- 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
- 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
- Models with Highly Oil-resistant:
- 6-dia. polyurethane-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.
- *2. D1 Models: Operation indicator (red), Setting indicator (green)
- D2/E/F Models: Operation indicator (red)

Diagram 8 E2E-X20MD□/E2E-X18ME□/F□



- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- Robotics Cable Models:
- 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
- 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
- The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.
- *2. D1 Models: Operation indicator (red), Setting indicator (green)
- D2/E/F Models: Operation indicator (red)

Mounting Hole Dimensions



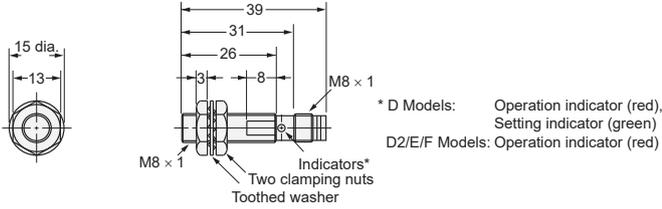
Dimension	M12	M18	M30
F (mm)	12.5 ^{+0.5} ₀ dia.	18.5 ^{+0.5} ₀ dia.	30.5 ^{+0.5} ₀ dia.

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

M8 Connector Models (Shielded)



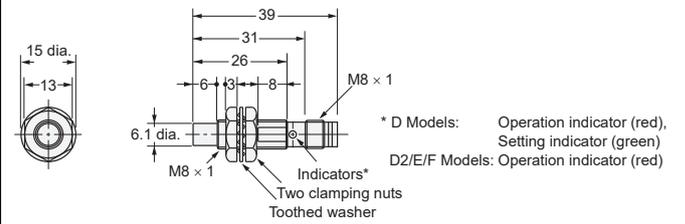
Diagram 17 E2E-X2D□-M3G/E2E-X1R5E□-M3/X1RF□-M3



M8 Connector Models (Unshielded)



Diagram 18 E2E-X4MD□-M3G/E2E-X2ME□-M3/X2MF□-M3



M12 Connector Models (Shielded)

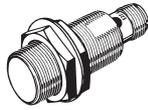
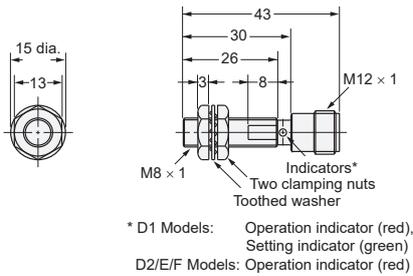


Diagram 9 E2E-X2D□-M1(G)
E2E-X1R5E□-M1/E2E-X1R5F□-M1



M12 Connector Models (Unshielded)



Diagram 10 E2E-X4MD□-M1(G)
E2E-X2ME□-M1/E2E-X2MF□-M1

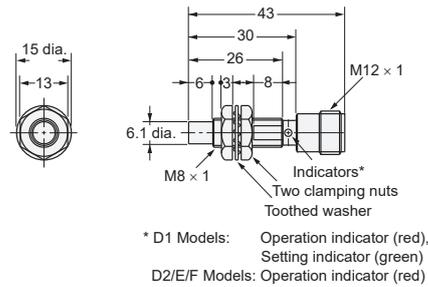


Diagram 11 E2E-X3D□-M1(G)
E2E-X2E□-M1/E2E-X2F□-M1

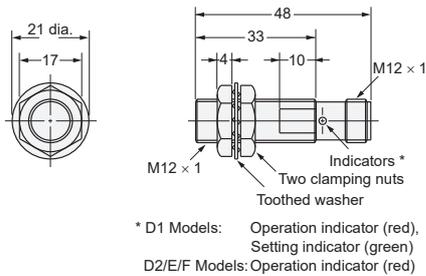
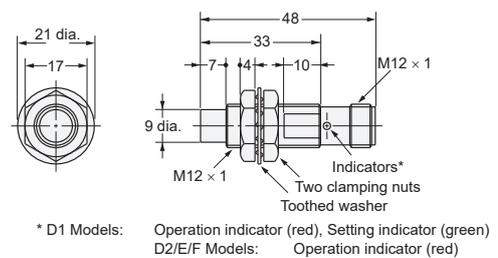
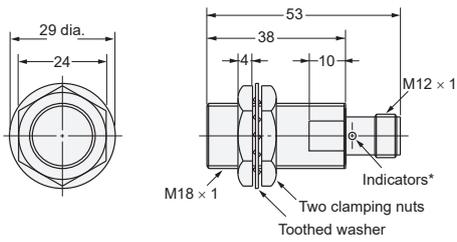


Diagram 12 E2E-X8MD□-M1(G)
E2E-X5ME□-M1/E2E-X5MF□-M1



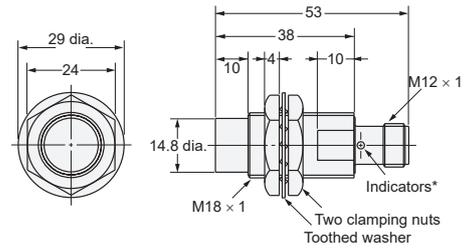
Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Diagram 13 E2E-X7D□-M1(G)/E2E-X5E□-M1/X5F□-M1



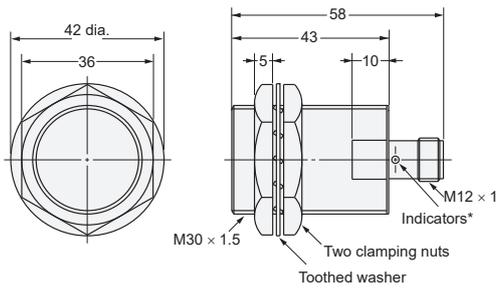
* D1 Models: Operation indicator (red), Setting indicator (green)
D2/E/F Models: Operation indicator (red)

Diagram 14 E2E-X14MD□-M1(G)/E2E-X10ME□-M1/X10MF□-M1



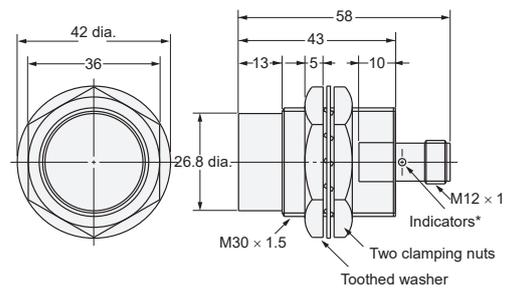
* D1 Models: Operation indicator (red), Setting indicator (green)
D2/E/F Models: Operation indicator (red)

Diagram 15 E2E-X10D□-M1(G)/E2E-X10E□-M1/X10F□-M1



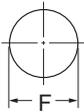
* D1 Models: Operation indicator (red), Setting indicator (green)
D2/E/F Models: Operation indicator (red)

Diagram 16 E2E-X20MD□-M1(G)/E2E-X18ME□-M1/X18MF□-M1



* D1 Models: Operation indicator (red), Setting indicator (green)
D2/E/F Models: Operation indicator (red)

Mounting Hole Dimensions



Dimensions	M8	M12	M18	M30
F (mm)	8.5 ^{+0.5} dia.	12.5 ^{+0.5} dia.	18.5 ^{+0.5} dia.	30.5 ^{+0.5} dia.

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Pre-wired Connector Models (Shielded)

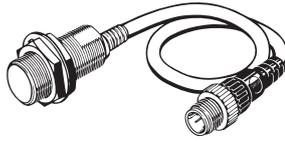
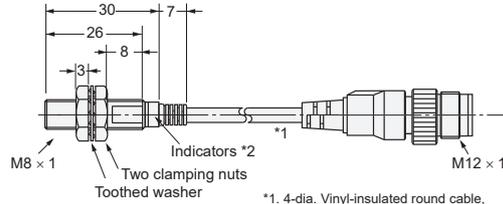
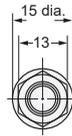
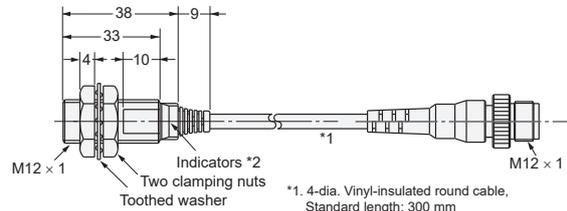


Diagram 19 E2E-X2D1-M1TGJ
E2E-X2D□-M1TGJ-US



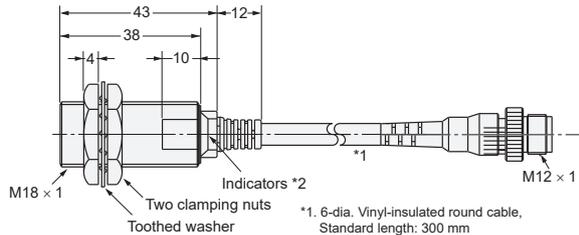
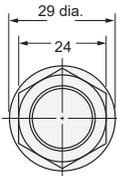
*1. 4-dia. Vinyl-insulated round cable, Standard length: 300 mm
*2. D1 Models: Operation indicator (red), Setting indicator (green)
D2 Models: Operation indicator (red)

Diagram 20 E2E-X3D□-M1GJ
E2E-X3D1-M1J-T
E2E-X3D1-M1TGJ
E2E-X3D□-M1TGJ-US



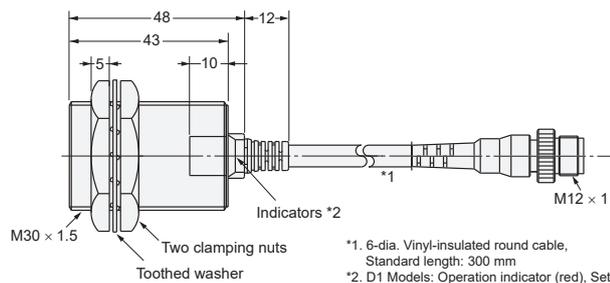
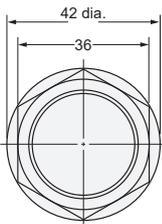
*1. 4-dia. Vinyl-insulated round cable, Standard length: 300 mm
*2. D1 Models: Operation indicator (red), Setting indicator (green)
D2 Models: Operation indicator (red)

Diagram 21 E2E-X7D□-M1GJ
E2E-X7D□-M1J-T
E2E-X7D1-M1TGJ
E2E-X7D□-M1TGJ-US



*1. 6-dia. Vinyl-insulated round cable, Standard length: 300 mm
*2. D1 Models: Operation indicator (red), Setting indicator (green)
D2 Models: Operation indicator (red)

Diagram 22 E2E-X10D□-M1GJ
E2E-X10D□-M1J-T
E2E-X10D1-M1TGJ
E2E-X10D□-M1TGJ-US

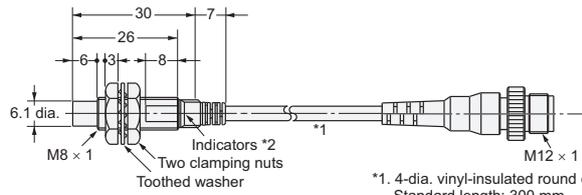
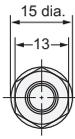


*1. 6-dia. Vinyl-insulated round cable, Standard length: 300 mm
*2. D1 Models: Operation indicator (red), Setting indicator (green)
D2 Models: Operation indicator (red)

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

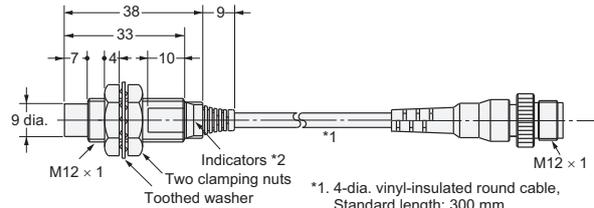
Pre-wired Connector Models (Unshielded)

Diagram 23 E2E-X4MD□-M1TGJ-US



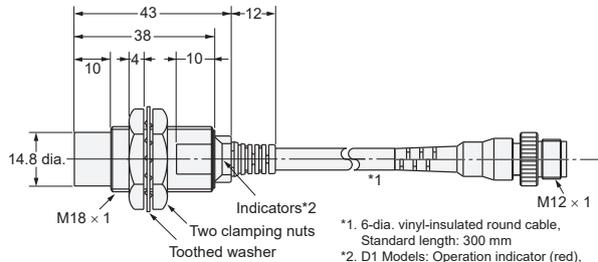
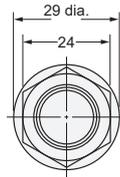
*1. 4-dia. vinyl-insulated round cable
Standard length: 300 mm
*2. D1 Models: Operation indicator (red),
Setting indicator (green)
D2 Models: Operation indicator (red)

Diagram 24 E2E-X8MD1-M1GJ
E2E-X8MD1-M1TGJ
E2E-X8MD□-M1TGJ-US



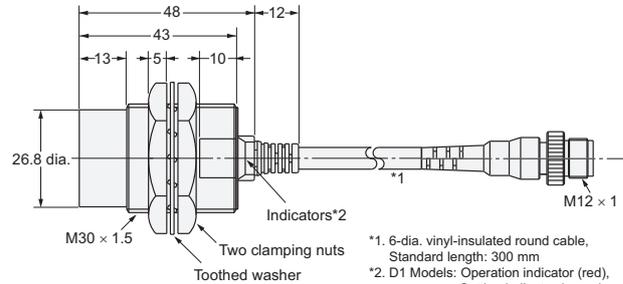
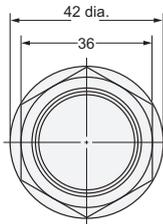
*1. 4-dia. vinyl-insulated round cable,
Standard length: 300 mm
*2. D1 Models: Operation indicator (red),
Setting indicator (green)
D2 Models: Operation indicator (red)

Diagram 25 E2E-X14MD□-M1GJ
E2E-X14MD1-M1TGJ
E2E-X14MD□-M1TGJ-US



*1. 6-dia. vinyl-insulated round cable,
Standard length: 300 mm
*2. D1 Models: Operation indicator (red),
Setting indicator (green)
D2 Models: Operation indicator (red)

Diagram 26 E2E-X20MD1-M1GJ
E2E-X20MD1-M1TGJ
E2E-X20MD□-M1TGJ-US



*1. 6-dia. vinyl-insulated round cable,
Standard length: 300 mm
*2. D1 Models: Operation indicator (red),
Setting indicator (green)
D2 Models: Operation indicator (red)

Mounting Hole Dimensions

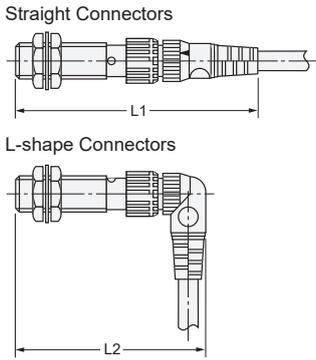


Dimension	M8	M12	M18	M30
F (mm)	8.5 ^{+0.5} ₀ dia.	12.5 ^{+0.5} ₀ dia.	18.5 ^{+0.5} ₀ dia.	30.5 ^{+0.5} ₀ dia.

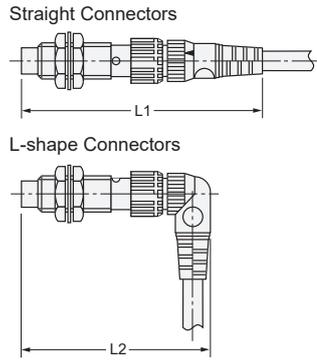
Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022. DC 3-Wire Models have been discontinued at the end of March 2022. Refer to the catalog (Cat. No. D120) for details.

Dimensions for Proximity Sensors with Sensor I/O Connectors

Shielded Models



Unshielded Models



Dimensions with the XS2F/XS5F Connected (Unit: mm)

Sensor diameter		Dimension	L1	L2
M8			Approx. 75	Approx. 62
M12*	DC		Approx. 80	Approx. 67
	AC		Approx. 85	Approx. 72
M18			Approx. 85	Approx. 72
M30			Approx. 90	Approx. 77

* The overall length of the Sensor is different between AC and DC Models for Sensors with diameters of M12. This will change the dimension when the I/O Connector is connected.

Dimensions with the XS3F Connected (Unit: mm)

Sensor diameter		Dimension	L1	L2
M8			Approx. 65	Approx. 54

Accessories (Order Separately)

Sensor I/O Connectors

Refer to *Introduction to Sensor I/O Connectors/Sensor Controllers* for details.

- Mounting Brackets
- Protective Covers
- Sputter Protective Covers

Refer to Y92□ for details.

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